

WHAT IS CLAIMED IS:

1. A plate-type heat exchanger comprising a stack of double-walled heat exchanger plates (30 - 32) which are permanently interconnected and each include two plate members (33, 34)  
5 having a central heat transfer portion (35) and an edge portion (36) bent upwardly with respect to the plane of the central heat transfer portion (35), separate flow passage spaces for at least two heat exchange fluids being defined between the double-walled heat exchanger plates (30 - 32), the two plate  
10 members (33, 34) entering into close mutual engagement at least partly in the area of the central heat transfer portion (35) and the upwardly bent edge portion (36) yet permitting heat exchange fluid between the plate members which gets to the upwardly bent edge portions (36) to exit through an aperture  
15 between the upwardly bent edge portions (36), the upwardly bent edge portions (36) being formed respectively with an outer edge (33a, 34a), characterized in that the respective outer edges (33a, 34a) of the two plate members (33, 34) of the double-walled heat exchanger plates (30 - 32) are spaced from each  
20 other.
2. The plate-type heat exchanger as claimed in claim 1, characterized in that outer edges (33a, 34a) of adjacent plate members (33, 34) of two neighboring double-walled heat exchanger plates (30, 31; 31, 32) in the stack are disposed in  
25 close mutual engagement.
3. The plate-type heat exchanger as claimed in claim 1 or 2, characterized in that neighboring double-walled heat exchanger plates (30, 31; 31, 32) are interconnected in fluid-tight fashion along adjacent upwardly bent edge portions (36).